Electronic Version
Stylesheet Version v1.1.1

Title of InventionA swimming wildfowl decoy driven by a through the keel, water jet propulsion system.

Abstract

A motorized wildfowl decoy which is designed to closely mimic the random, back and forth swimming actions of live waterfowl utilizing a through the keel, water jet propulsion system, and an anchor system. The propulsion system is located on the under side of the decoy and incorporated into the existing water keel of the decoy. The propulsion pump, powered by a rechargeable battery, is located in a cut out section of the water keel near the front of the decoy body, with the propulsion discharge being routed through the water keel , then being directed towards the water surface though a 45 degree bend, located at the aft of the water keel, and out through a swim course correction orifice which is a rotatable cap on the end of the discharge tubing with an off-centered discharge hole. The purpose for directing the discharge toward the water surface is to create a lifelike wake behind the decoy as it swims through the water. The swim course correction orifice can be rotated clockwise or counterclockwise to adjust the

swim pattern. The anchor system consists of a conventional lead decoy anchor with a line, attached by a swivel, to the center of the bottom of the front of the decoy's water keel and of sufficient length, based on water depth, and to yield the desired field of swimming pattern. The propulsion system is designed to give a relatively straight line swimming pattern, which combined with the anchor system, produces a random straight line then turn/change course, straight line then turn/change course action similar to the swimming actions live waterfowl use while in a feeding area. This swim pattern is not achieved by any other motorized decoy COMPONENTS 1) Decoy Body 2) Propulsion Pump 3) Pump Wiring 4) Discharge Tubing 5) Course Correction Orifice 6) Anchor Line with Swivels 7) Weight 8) Spacer/Seal and SS Mounting Bolts 9) Battery Compartment Hatch 10) Battery Compartment Latch 11) Motor Switch 12) Battery Tray 13) Sealed Lead Acid Rechargeable Battery 14) 45 Degree Surface Turbulence Fitting ASSEMBLY STEPS) Mark, cut, and remove the front 6 inches of the water keel to facilitate mounting the Propulsion Pump (2)., leaving 3 inches of the water keel at the rear of the Decoy Body (1) to route the propulsion piping through.) Mark and cut the Battery Compartment Hatch (9) opening (4 inch X 6 inch) leaving the front edge attached to the Decoy Body (1) to serve as a hinge.) Drill the entry hole for the Pump Wiring (3) in the rear of the Decoy Body (1).) Drill the hole

for the Motor Switch (11).) Drill the holes for the Propulsion Pump (2) Mounting Bolts (8).) Install the Battery Compartment Latch (10) with self drilling screw.) Install the Propulsion Pump (2) using the Spacer/Seal and Mounting Bolts (8).) Route the Pump Wiring (3) though the hole drilled in the rear of the Decoy Body (1) and apply sealant.) Install the Discharge Tubing, (4) Surface Turbulence Fitting (14), and Course Correction Orifice (5).) Crimp female spade connectors to Pump Wiring (3) and attach to Motor Switch (11).) Install the Motor Switch (11).) Install the Battery Tray (12) using high strength waterproof adhesive.) Apply 2 inch by 2 inch piece of adhesive backed, industrial hook and loop, fastening material to the Battery Tray (12) and to the Sealed Lead Acid Rechargeable Battery (13).) Install the Anchor Line with Swivels (6) and Weight (7).) Paint the underside components with flat black. INSTRUCTIONS FOR USE) Open Battery Compartment Hatch (9).) Connect black wire to negative battery terminal and red wire to the positive battery terminal.) Place Battery (13) in Battery Tray (12).) Close Battery Compartment Hatch (9).) Unwrap Weight (7) and Anchor Line (6) from Decoy Body (1).) Anchor line should be a minimum of 2 feet longer than the water depth at the use location. User will have to provide and add additional anchor line if the line provided is not long enough for the water depth at the use location.) Place Weight (7) in area with no obstructions within the desired swim

pattern area.) Place decoy on water surface and turn Motor Switch (11) on.) Observe decoy's swim path. The decoy should swim relatively straight until reaching the end of the anchor line, turn, then swim relatively straight until it reaches the end of the anchor line again. Adjust the Course Correction Orifice (5), if needed, to achieve the desired swim pattern. LIST OF FIGURES) FIGURE - 1 - Left Side View) FIGURE - 2 - Right Side View) FIGURE - 3 - Top View) FIGURE - 4 - Front View) FIGURE - 5 - Battery Compartment View) FIGURE - 6 - Rear View